

CLAIMS

1. A transformable toy, the figure of which can be changed from a state where a toy doll is riding on a movable toy such as a two-wheeled vehicle to a toy robot having a configuration different from that of the toy doll by transforming at least a part of the movable toy and mounting it on the toy doll,

the movable toy including an assembly composed of a plurality of components, the assembly being mounted onto an upper body of the toy doll to constitute an exterior for an upper body of the toy robot,

the assembly including a first assembly constituent section mainly disposed in a front side of the toy doll; a second assembly constituent section connected to the first assembly constituent section and disposed in a back side of the toy doll; and a third assembly constituent section connecting the first and second assembly constituent sections, each of the first, second and third assembly constituent sections being composed of the one or more components,

the first, second and third assembly constituent sections being assembled together in an annular shape to constitute the exterior of the toy doll, the exterior surrounding at least shoulders, a crotch, the front side and the back side of the toy doll.

2. The transformable toy according to claim 1, wherein the movable toy is an autobicycle,

the first assembly constituent section includes a front cover, a front fork, and a front frame of the autobicycle; the second assembly constituent section includes a fuel tank, a sitting portion, a rear frame, and a rear cover; and the third assembly constituent section includes a handle,

at least the front frame and the rear frame are rotatably connected,

the fuel tank is constituted by assembling two tank half portions that can be separated apart right and left, and

the two tank half portions are attached to the rear frame in such a manner that the front frame can pass through between the two tank half portions which are separated apart left and right when assembling the first, second and third assembly constituent sections in the annular shape.

3. The transformable toy according to claim 2, wherein an engaged portion is arranged in the back side of the toy doll,

a cover part of the rear cover, which is located by the side of the sitting portion, is supported by a rear cover body of the rear cover in such a manner that the cover part can be turned over, and

an engaging portion engaging with the engaged portion

of the toy doll is arranged in a turned-over side of the cover part.

4. The transformable toy according to claim 2, wherein a construction of the handle and a construction of the rear cover are defined so that end portions of a pair of arm parts of the handle can engage with the rear cover to constitute the exterior in the annular shape, and the handle can be located over the shoulders of the toy doll.

5 The transformable toy according to claim 2, wherein the front frame and the front fork are connected to rotate in a predetermined angular range and the rear frame and the rear cover are connected to rotate in a predetermined rotation range.

6. A transformable toy, the figure of which can be changed from a state where a toy doll is riding on a movable toy such as a two-wheeled vehicle to a toy robot having a configuration different from that of the toy doll by transforming a part of the movable toy and mounting it on the toy doll,

the movable toy including at least a pair of shin section constituents composed of one or more components and attached to a pair of leg sections of the toy doll, the pair of shin section constituents constituting shin sections of the pair of leg sections for the toy robot;

and an assembly composed of a plurality of components and attached to an upper body of the toy doll to constitute an exterior for an upper body of the toy robot,

the assembly including a first assembly constituent section mainly disposed in a front side of the toy doll; a second assembly constituent section connected to the first assembly constituent section and disposed in a back side of the toy doll; and a third assembly constituent section connecting the first and second assembly constituent sections and disposed on shoulders of the toy doll so that a head section of the toy doll can be exposed, each of the first, second and third assembly constituent sections being composed of the one or more components,

the first, second and third assembly constituent sections being assembled together in an annular shape to constitute the exterior of the toy doll, the exterior surrounding the shoulders, a crotch, the front side and the back side of the toy doll except the leg sections, arm sections and the head section thereof.

7. The transformable toy according to claim 6, wherein the movable toy is an autobicycle,

the first assembly constituent section includes a front cover, a front fork, and a front frame of the autobicycle; the second assembly constituent section includes a fuel tank, a sitting portion, a rear frame, and a rear cover; and the third assembly constituent section

includes a handle,

at least the front frame and the rear frame are rotatably connected,

the fuel tank is constituted by assembling two tank half portions that can be separated apart right and left, and

the two tank half portions are attached to the rear frame in such a manner that the front frame can pass through between the two tank half portions which are separated apart left and right when assembling the first, second and third assembly constituent sections in the annular shape.

8. The transformable toy according to claim 7, wherein an engaged portion is arranged in the back side of the toy doll,

a cover part of the rear cover, which is located by the side of the sitting portion, is supported by a rear cover body of the rear cover in such a manner that the cover part can be turned over, and

an engaging portion engaging with the engaged portion of the toy doll is arranged in a turned-over side of the cover part.

9. The transformable toy according to claim 7, wherein a construction of the handle and a construction of the rear cover are defined so that end portions of a pair of arm parts of the handle can engage with the rear cover to

constitute the exterior in the annular shape, and the handle can be located over the shoulders of the toy doll.

10. The transformable toy according to claim 7, wherein the front frame and the front fork are connected to rotate in a predetermined angular range and the rear frame and the rear cover are connected to rotate in a predetermined rotation range.

11. The transformable toy according to claim 6, wherein the pair of shin section constituents are a pair of muffler constituent sections of the autobicycle.

12. The transformable toy according to claim 11, wherein each of two wheels of the autobicycle has a construction that can be divided into two parts in a direction orthogonal to the wheel's axle to form wheel half portions, and
the wheel half portions of the two wheels are mounted onto the exterior and/or both of the shin sections of the toy robot respectively.

13. A toy foot structure comprising a foot section having a tiptoe section and a heel section, and a heel mounting mechanism that attaches the heel section to a shin section,
the heel mounting mechanism being constructed in such a manner that the heel section can move with respect to the shin section so that a whole bottom face of the heel

section can be in full contact with a setting surface whenever the shin section stands erect or the shin section is inclined in a lateral direction as seen from the tiptoe side.

14. The toy foot structure according to claim 13, wherein the heel mounting mechanism is constructed in such a manner that the heel section can be inclined right and left with respect to the shin section as the shin section is seen from the tiptoe side.

15. The toy foot structure according to claim 14, wherein the heel mounting mechanism includes a shaft orthogonal to a longitudinal direction of the shin section and extending in a direction where the tiptoe section and the heel section are disposed side by side so that the heel section can swing in a predetermined angular range with respect to the shaft.

16. The toy foot structure according to claim 15, wherein the shaft is constituted integrally with the heel section and the shine section includes a shaft supporting structure rotatably supporting the shaft.

17. The toy foot structure according to claim 14, wherein the heel mounting mechanism is constructed in such a manner that the heel section can be inclined back and forth with

respect to the shin section as the shin section is seen from the tiptoe side.

18. A transformable toy, the figure of which can be changed from a state where a toy doll is riding on a movable toy such as a two-wheeled vehicle to a toy robot having a configuration different from that of the toy doll by transforming a part of the movable toy and mounting it on the toy doll,

the movable toy including at least a pair of shin section constituents composed of one or more components and attached to a pair of leg sections of the toy doll, the pair of shin section constituents constituting shin sections of the pair of leg sections for the toy robot; and an assembly composed of a plurality of components and attached to an upper body of the toy doll to constitute an exterior for an upper body of the toy robot,

the assembly including a first assembly constituent section mainly disposed in a front side of the toy doll; a second assembly constituent section connected to the first assembly constituent section and disposed in a back side of the toy doll; and a third assembly constituent section connecting the first and second assembly constituent sections, each of the first, second and third assembly constituent sections being composed of the one or more components,

the first, second and third assembly constituent

sections being assembled together in an annular shape to constitute the exterior of the toy doll, the exterior surrounding at least shoulders, a crotch, the front side and the back side of the toy doll,

the pair of shin section constituents being deformably constituted to form a toy foot structure that includes a shin section and a foot section having a tiptoe section and a heel section for the toy robot; and a heel mounting mechanism that attaches the heel to the shin section,

the heel mounting mechanism being constructed in such a manner that the heel section can move with respect to the shin section so that a whole bottom face of the heel section can be in full contact with a setting surface whenever the pair of leg sections of the toy robot are opened right and left, or closed, as seen from the front.

19. The transformable toy according to claim 18, wherein the heel mounting mechanism includes a shaft orthogonal to a longitudinal direction of the shin section and extending in a direction where the tiptoe section and the heel section are disposed side by side so that the heel section can swing in a predetermined angular range with respect to the shaft.